

**AMENDMENTS TO THE CLAIMS**

1-25. (Canceled)

26. (Previously Presented) A device according to claim 29, wherein the control unit and the dressing are integrated with each other.

27-28. (Canceled)

29. (Currently Amended) A device for treating tissue, comprising:  
a dressing for applying to a treatment area;  
a pair of electrodes affixed to a treatment surface of the dressing; and  
a control unit for passing ~~adapted to pass~~ alternating current to the treatment area via the electrodes and for constantly varying ~~is further adapted to vary constantly~~ the amplitude and/or the frequency of the alternating current.

30. (Original) A device according to claim 29, wherein the alternating current is varied between 50 and 500 microamps.

31. (Previously Presented) A device according to claim 29, wherein the frequency of the alternating current is varied between 10 and 900 hertz.

32. (Previously Presented) A device according to claim 29, wherein the time period between each variation of amplitude and/or frequency is 0.1s.

33. (Previously Presented) A device according to claim 29, wherein the alternating current has a ramp waveform.

34. (Withdrawn) A device according to claim 26, wherein the control unit is etched into a substrate.

35. (Previously Presented) A device according to claim 29, wherein the control unit comprises:

a housing; and

electronic circuitry in the housing connected to the pair of electrodes.

36. (Currently Amended) A device according to claim 35, wherein the electronic circuitry comprises ~~comprising~~ memory storing at least one programme for determining the amplitude, frequency and waveform of alternating current supplied to the electrodes.

37. (Previously Presented) A device according to claim 36, wherein the control unit further comprises an i/o port connected to the electronic circuitry, such that an external device can connect to the control unit via the i/o port and update the memory and controlling operation of the control unit.

38. (Currently Amended) A device according to claim ~~[[35,]]~~ 37, wherein the control unit further comprises a wireless transceiver connected to the electronic circuitry, such that an external device can wirelessly connect to the control unit via the i/o port and update the memory and control operation of the control unit.

39. (Previously Presented) A device according to claim 35, wherein the control unit comprises:

a pair of activation electrodes; and

a removable tab including a metallic strip connecting the activation electrodes,

wherein the electronic circuitry detects when a current can pass between the activation electrodes and only supplies current to the output electrodes when the tab is removed such that no current passes between the activation electrodes.

40-47. (Canceled)